

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1 1. (Currently Amended) Method for controlling data retransmission from a control
2 unit over a connection established with a radio terminal,

3 in which the control unit and the terminal exchange over the said connection, by
4 means of at least one base station, first frames comprising data frames sent to the terminal and
5 acknowledgement frames sent by the terminal and containing acknowledgement information in
6 respect of the first data frames,

7 in which the first frames are encapsulated, with corresponding timestamping
8 information, in second frames for transmission between the control unit and each base station
9 over an asynchronous interface,

10 in which the timestamping information accompanying one of the data frames over
11 the asynchronous interface indicates an instant of transmission of the said data frames frame by
12 each base station with reference to a time counter specific to a radio section of the said
13 connection,

14 in which the timestamping information accompanying one of the
15 acknowledgement frames over the asynchronous interface indicates an instant of reception of the
16 said acknowledgement frame by each base station with reference to the said time counter,

17 wherein the method comprises the following steps:

- 18 - storing, at the control unit, the timestamping information indicating an
19 instant of transmission of a data frame; and
- 20 - upon reception at the control unit of an acknowledgement frame
21 accompanied by timestamping information indicating an instant of
22 transmission and containing acknowledgement information interpreted as
23 indicating non-reception of the said data frame by the terminal, selectively
24 considering or ignoring the said acknowledgement information for
25 controlling a retransmission of the said data frame, depending on a result
26 of a comparison between the said instants of reception and transmission.

1 2. (Previously Presented) Method according to Claim 1, in which the selectively
2 considering or ignoring of the said acknowledgement information comprises the alternatives of:
3 - ignoring the said acknowledgement information if the said instant of reception is
4 not later than the said instant of transmission by an amount exceeding a threshold; or
5 - taking into account the said acknowledgement information if the said instant of
6 reception is later than the said instant of transmission by an amount exceeding the said threshold.

1 3. (Previously Presented) Method according to Claim 2, in which the said threshold
2 is zero.

1 4. (Original) Method according to Claim 2, in which the said threshold is of the
2 order of ten milliseconds.

1 5. (Original) Method according to Claim 2, in which the said threshold is variable.

1 6. (Currently Amended) Control unit comprising means for exchanging first frames
2 with a radio terminal over a connection established with the said radio terminal, by means of at
3 least one base station,

4 in which the first frames comprise data frames sent to the terminal and
5 acknowledgement frames sent by the terminal and containing acknowledgement information in
6 respect of the first data frames,

7 in which the first frames are encapsulated, with corresponding timestamping
8 information, in second frames for transmission between the control unit and each base station
9 over an asynchronous interface,

10 in which the timestamping information accompanying one of the data frames over
11 the asynchronous interface indicates an instant of transmission of the said data frames frame by
12 each base station with reference to a time counter specific to a radio section of the said
13 connection,

14 in which the timestamping information accompanying one of the
15 acknowledgement frames over the asynchronous interface indicates an instant of reception of the
16 said acknowledgement frame by each base station with reference to the said time counter,

17 wherein the control unit additionally comprises:

- 18 - means for storing the timestamping information indicating an instant of
19 transmission of a data frame; and
- 20 - means by which, upon reception at the control unit of an
21 acknowledgement frame accompanied by timestamping information
22 indicating an instant of transmission and containing acknowledgement
23 information interpreted as indicating non-reception of the said data frame
24 by the terminal, the said acknowledgement information for controlling
25 retransmission of the said data frame is selectively considered or ignored,
26 depending on a result of a comparison between the said instants of
27 reception and transmission.

1 7. (Previously Presented) Control unit according to Claim 6, in which the means of
2 selectively considering or ignoring the said acknowledgement information are arranged:
3 - to ignore the said acknowledgement information if the said instant of reception is
4 not later than the said instant of transmission by an amount exceeding a threshold; and
5 - to take into account the said acknowledgement information if the said instant of
6 reception is later than the said instant of transmission by an amount exceeding the said threshold.

1 8. (Previously Presented) Control unit according to Claim 7, in which the said
2 threshold is zero.

1 9. (Original) Control unit according to Claim 7, in which the said threshold is of the
2 order of ten milliseconds.

1 10. (Original) Control unit according to Claim 7, in which the said threshold is
2 variable.

1 11. (Previously Presented) Method according to Claim 2, in which the threshold is
2 less than 10 milliseconds.

1 12. (Previously Presented) Control unit according to Claim 7, in which said threshold
2 is less than 10 milliseconds.